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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/653 245 SEO ET AL. Office Action Summary Examiner Art Unit Michael Choi 2621 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 March 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 and 12-39 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7 and 12-39 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/24/09 has been entered.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Omum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 646 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a loint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

 Claims 1-7 and 12-39 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 10, 13, 21, 24, 25, 26, 27 of copending Application No. 10/766.211 in view of Maruvama et al. (US 6.385.289 B1).

Regarding Claim 1 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of amended '211 teaches everything except what is recited below (e.g. - a data area storing at least first and second still images and wherein a storing area per clip is associated with two images), but rejected in combination with Maruyama et al. as seen where a computer-readable medium having a data structure for managing reproduction of still images recorded on the computer-readable medium, comprising:

- a data area storing at least first and second still images (see Fig. 3 data area having VOBU containing video packs (Fig. 11) - first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33); and
- a playlist area storing at least one playlist (Fig. 3 having a program chain in audio & video data area), the playlist including mark information (Fig. 8 - having a cell ID number within a program chain), the mark information providing presentation information on the first and second still images to provide for at least skipping (Fig. 8 - program chains skipping between various cells, having still images) from reproducing the first still image to reproducing the second still image (Fig. 11 - C_IDN#1 having a navigation pack containing presentation control information); and
- a management area storing at least a first and second clip information file (see Fig. 8, DA - storage of control information, having VTS's and video and picture objects; Fig. 11 - VTS having VOBS therein VOBUs 1 and 2, 85), the first and the second clip information files corresponding to the first and second still image (Fig. 11 - first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of

secondary VOBU to be image #2; Col. 12, lines 26-33), respectively, the first clip information file including a mapping information between a presentation time and the first still image, the second information file including a mapping information between a presentation time and the second still image (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective video pack having also a recorded presentation time stamp; Fig. 12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the more than one clip information with its associated images so as to allow for video reproduction as opposed to just a single image per clip, thereby allow longer reproduction of scenes.

Regarding Claim 2 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of '211 teaches the limitations of the elementary claim in combination with Maruyama but does not explicitly teach the limitation of this dependent claim. Therefore, Maruyama et al. teaches the computer-readable medium of claim 1, wherein the mark information includes a first mark associated with the first still image and a second mark associated with the second still image, the first and second marks providing the presentation information on the first and second still images, respectively (Figs. 11, 27 – C_IDN#1 having a video object unit and C_IDN#2 having a video object unit each containing a navigation pack with presentation control – Figs. 12, 13).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have marks to enable user to define position of playback.

Regarding Claim 3 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of '211 teaches the limitations of the elementary claim in combination with Maruvama but does not

Application/Control Number: 10/653,245

Art Unit: 2621

explicitly teach the limitation of this dependent claim. Therefore, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the first mark includes a first indicator indicating at least a stream of data where the first mark is placed (Figs. 12, 27 – VOBU, 1411 containing a navigation pack (Fig. 11) having a pack header (Fig. 12, 110)); and the second mark includes a second indicator indicating at least a stream of data where the second mark is placed (Figs. 12, 27 – VOBU, 1412 containing a navigation pack (Fig. 11) having a pack header (Fig. 12, 110)).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have marks to enable user to define position of playback.

Regarding Claim 4 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of '211 teaches the limitations of the elementary claim in combination with Maruyama but does not explicitly teach the limitation of this dependent claim. Therefore, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the first mark includes a first indicator indicating a point in a stream of data where the first mark is placed (Figs. 12, 27 – VOBU, 1411 containing a navigation pack (Fig. 11) having a pack and system header (Fig. 12, 110, 111)); and the second mark includes a second indicator indicating a point in a stream of data where the second mark is placed (Figs. 12, 27 – VOBU, 1412 containing a navigation pack (Fig. 11) having a pack and system header (Fig. 12, 110, 111)).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have marks to enable user to define position of playback.

Regarding Claim 5 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of '211 teaches the limitations of the elementary claim in combination with Maruyama but does not explicitly teach the limitation of this dependent claim. Therefore, Maruyama et al. teaches the

Application/Control Number: 10/653,245

Art Unit: 2621

computer-readable medium of claim 2, wherein the first mark includes a type indicator indicating a type of the first mark, and the second mark includes a type indicator indicating a type of the second mark (Col. 14, lines 38+ - containing a stream ID for both pack and system headers).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have marks to enable user to define position of playback.

Regarding Claim 6 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of '211 teaches the limitations of the elementary claim in combination with Maruyama but does not explicitly teach the limitation of this dependent claim. Therefore, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the mark information indicates a number of marks in the mark information (Fig. 27 – VOBU containing various sector numbers for each pack).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have marks to enable user to define position of playback.

Regarding Claim 7 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of '211 teaches the limitations of the elementary claim in combination with Maruyama but does not explicitly teach the limitation of this dependent claim. Therefore, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the first mark points to the first still image and the second mark points to the second still image (Fig. 12 – wherein a first pack and system header associates with the subsequent video packs, each have a still picture for the first mark and second pack and system header associates with the subsequent video packs, 88, also having a still picture for the second mark).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have marks to enable user to define position of playback.

Regarding Claim 12 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of amended '211 teaches everything except what is recited below (e.g. – a data area storing at least first and second still images and wherein a storing area per clip is associated with two images), but rejected in combination where Maruyama et al. teaches a method of reproducing a data structure for managing reproduction of still images recorded on the computer-readable medium (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU, comprising:

- reproducing at least one playlist from the computer-readable medium, the playlist including mark information (Fig. 8 having a cell ID number within a program chain), the mark information providing presentation information on first and second still images to provide for at least skipping (Fig. 8 program chains skipping between various cells, having still images) from reproducing the first still image to reproducing the second still image (Fig. 11 C_IDN#1 having a navigation pack containing presentation control information; Col. 12, lines 26-33 each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 each respective video pack having also a recorded presentation time stamp; Fig. 12); and
- a management area storing at least a first and second clip information file (see Fig. 8, DA storage of control information, having VTS's and video and picture objects; Fig. 11
 VTS having VOBS therein VOBUs 1 and 2, 85), the first and the second clip information files corresponding to the first and second still image (Fig. 11 first VOBU having video pack which comprises images wherein examiner takes first image of first

video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2: Col. 12, lines 26-33), respectively, the first clip information file including a mapping information between a presentation time and the first still image, the second information file including a mapping information between a presentation time and the second still image (Col. 12, lines 26-33 - each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 each respective video pack having also a recorded presentation time stamp; Fig. 12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the more than one clip information with its associated images so as to allow for video reproduction as opposed to just a single image per clip, thereby allow longer reproduction of scenes.

Regarding Claim 13 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of amended '211 teaches everything except what is recited below (e.g. - a data area storing at least first and second still images and wherein a storing area per clip is associated with two images), but rejected in combination where Maruyama et al. teaches an apparatus for reproducing a data structure for managing reproduction of still images recorded on the computer-readable medium, comprising:

- · a pick up configured to reproduce data recorded on the computer-readable medium (Fig. 19. 32):
- · a controller configured to control the pick up (Fig. 19, 36) to reproduce at least one playlist file and at least a first and a second clip information file from the computerreadable medium (in at least Col. 2, Lines 30-35 - playback of program chains - Fig. 34; see Fig. 8, DA - storage of control information, having VTS's and video and picture

objects; Fig. 11 - VTS having VOBS therein VOBUs 1 and 2, 85), the playlist including mark information (Fig. 8 - having a cell ID number within a program chain), the mark information providing presentation information on first and second still images (Fig. 11 -C IDN#1 having a navigation pack containing presentation control information; Col. 12. lines 26-33 - each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective video pack having also a recorded presentation time stamp; Fig. 12) to provide for at least skipping from reproducing the first still image to reproducing the second still image (Fig. 8 - program chains skipping between various cells, having still images), the first and the second clip information files corresponding to the first and second still image (Fig. 11 - first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33), respectively, the first clip information file including a mapping information between a presentation time and the first still image, the second information file including a mapping information between a presentation time and the second still image (Col. 12, lines 26-33 - each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective video pack having also a recorded presentation time stamp; Fig. 12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the more than one clip information with its associated images so as to allow for video reproduction as opposed to just a single image per clip, thereby allow longer reproduction of scenes.

Regarding Claim 14 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of amended '211 teaches everything except what is recited below (e.g. – a data area storing at least first and second still images and wherein a storing area per clip is associated with two images), but rejected in combination where Maruyama et al. teaches a method of recording a data structure for managing reproduction of at least still images recorded on a computer-readable medium, comprising:

- recording (Col. 26, lines 21+; Fig. 25 recording of video and audio data in data area) at least one playlist file and at least a first and a second clip information file from the computer-readable medium (in at least Col. 2, Lines 30-35 playback of program chains Fig. 34; see Fig. 8, DA storage of control information, having VTS's and video and picture objects; Fig. 11 VTS having VOBS therein VOBUs 1 and 2, 85), the playlist including mark information (Fig. 8 having a cell ID number within a program chain), the mark information providing presentation information on first and second still images (Fig. 11 C_IDN#1 having a navigation pack containing presentation control information; Col. 12, lines 26-33 each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 each respective video pack having also a recorded presentation time stamp; Fig. 12) to provide for at least skipping from reproducing the first still image to reproducing the second still image (Fig. 8 program chains skipping between various cells, having still images); and
- recording at least a first and a second information file in a management area on the
 computer-readable medium (Col. 26, lines 21+; Fig. 25 recording of video and audio
 data in data area), the first and the second clip information files corresponding to the first
 and second still image (Fig. 11 first VOBU having video pack which comprises images
 wherein examiner takes first image of first video pack to be image #1 of initial VOBU and

first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33), respectively, the first clip information file including a mapping information between a presentation time and the first still image, the second information file including a mapping information between a presentation time and the second still image (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 – each respective video pack having also a recorded presentation time stamp; Fig. 12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the more than one clip information with its associated images so as to allow for video reproduction as opposed to just a single image per clip, thereby allow longer reproduction of scenes.

Regarding Claim 15 of the instant application, claims 1, 10, 13, 21, 24, 25, 26, 27 of amended '211 teaches everything except what is recited below (e.g. – a data area storing at least first and second still images and wherein a storing area per clip is associated with two images), but rejected in combination where Maruyama et al. teaches an apparatus for recording a data structure for managing reproduction of at least still images on a computer-readable medium (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU), comprising:

- a pick up configured to record data on the computer-readable medium (Fig. 19, 32);
- a controller configured to control the pick up to record (Col. 26, lines 21+; Fig. 25 recording of video and audio data in data area) at least one playlist file and at least a first
 and a second clip information file from the computer-readable medium (in at least Col. 2,
 Lines 30-35 playback of program chains Fig. 34; see Fig. 8, DA storage of control

information, having VTS's and video and picture objects; Fig. 11 - VTS having VOBS therein VOBUs 1 and 2, 85), the playlist including mark information (Fig. 8 - having a cell ID number within a program chain), the mark information providing presentation information on first and second still images (Fig. 11 - C IDN#1 having a navigation pack containing presentation control information; Col. 12, lines 26-33 - each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 each respective video pack having also a recorded presentation time stamp; Fig. 12) to provide for at least skipping from reproducing the first still image to reproducing the second still image (Fig. 8 - program chains skipping between various cells, having still images), the first clip information file (Fig. 11 - first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2: Col. 12, lines 26-33) including a mapping information between a presentation time and the first still image and the second clip information file including a mapping information between a presentation time and the second still image (Col. 12, lines 26-33 - each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective video pack having also a recorded presentation time stamp; Fig. 12), the first and the second clip information file corresponding to the first and the second still image, respectively.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the more than one clip information with its associated images so as to allow for video reproduction as opposed to just a single image per clip, thereby allow longer reproduction of scenes.

Application/Control Number: 10/653,245 Art Unit: 2621

Claims 16, 22, 28 and 34 are rejected under the same grounds as claim 2.

Claims 17, 23, 29 and 35 are rejected under the same grounds as claim 3.

Claims 18, 24, 30 and 36 are rejected under the same grounds as claim 4.

Claims 19, 25, 31 and 37 are rejected under the same grounds as claim 5.

Claims 20, 26, 32 and 38 are rejected under the same grounds as claim 6.

Claims 21, 27, 33 and 39 are rejected under the same grounds as claim 7.

This is a provisional obviousness-type double patenting rejection.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the application for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 1-7 and 12-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Maruyama et al. (US 6,385,289 B1).

Regarding Claim 1, Maruyama et al. teaches a computer-readable medium having a data structure for managing reproduction of still images recorded on the computer-readable

medium (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU, comprising:

- a data area storing at least a first clip stream file and a second clip stream file, the first
 clip stream file including video data for reproducing at least first and second still images.
 the second clip stream file including audio data (see Fig. 3 data area having VOBU
 containing video packs (Fig. 11) first VOBU having video pack which comprises images
 wherein examiner takes first image of first video pack to be image #1 of initial VOBU and
 first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33);
 and
- a playlist area storing at least one playlist (Fig. 3 having a program chain in audio & video data area), the playlist including mark information (Fig. 8 having a cell ID number within a program chain) and at least one playitem and a sub-playitem (Fig. 27, Col. 35, lines 45-61 user defined program chain), the mark information providing presentation information on the first and second still images to provide for at least skipping (Fig. 8 program chains skipping between various cells, having still images) from reproducing the first still image to reproducing the second still image (Fig. 11 C_IDN#1 having a navigation pack containing presentation control information), the playitem indicating an in-point and an out-point of the first clip stream file for reproducing the first and second still images, the sub-playitem indicating an in-point and an out-point of the second clip stream file for reproducing the audio data (Fig. 27, Col. 35, lines 45-61 user defined program chain); and
- a management area storing at least a first and second clip information file (see Fig. 8, DA – storage of control information, having VTS's and video and picture objects; Fig. 11
 VTS having VOBS therein VOBUs 1 and 2, 85), the first and the second clip

information files corresponding to the first and second clip stream files (Fig. 11 – first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33), the first clip information file including a mapping information between a presentation time and a unit of the first clip stream file, the second information file including a mapping information between a presentation time and a unit of the second clip stream file (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 – each respective video pack having also a recorded presentation time stamp; Fig. 12).

Regarding Claim 2, Maruyama et al. teaches the computer-readable medium of claim 1, wherein the mark information includes a first mark associated with the first still image and a second mark associated with the second still image, the first and second marks providing the presentation information on the first and second still images, respectively (Figs. 11, 27 – C_IDN#1 having a video object unit and C_IDN#2 having a video object unit each containing a navigation pack with presentation control – Figs. 12, 13).

Regarding Claim 3, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the first mark includes a first indicator indicating at least a stream of data where the first mark is placed (Figs. 12, 27 – VOBU, 1411 containing a navigation pack (Fig. 11) having a pack header (Fig. 12, 110)); and the second mark includes a second indicator indicating at least a stream of data where the second mark is placed (Figs. 12, 27 – VOBU, 1412 containing a navigation pack (Fig. 11) having a pack header (Fig. 12, 110)).

Regarding Claim 4, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the first mark includes a first indicator indicating a point in a stream of data where the first mark is placed (Figs. 12, 27 – VOBU, 1411 containing a navigation pack (Fig. 11) having a pack and system header (Fig. 12, 110, 111)); and the second mark includes a second indicator indicating a point in a stream of data where the second mark is placed (Figs. 12, 27 – VOBU, 1412 containing a navigation pack (Fig. 11) having a pack and system header (Fig. 12, 110, 111)).

Regarding Claim 5, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the first mark includes a type indicator indicating a type of the first mark, and the second mark includes a type indicator indicating a type of the second mark (Col. 14, lines 38+ - containing a stream ID for both pack and system headers).

Regarding Claim 6, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the mark information indicates a number of marks in the mark information (Fig. 27 – VOBU containing various sector numbers for each pack).

Regarding Claim 7, Maruyama et al. teaches the computer-readable medium of claim 2, wherein the first mark points to the first still image and the second mark points to the second still image (Fig. 12 – wherein a first pack and system header associates with the subsequent video packs, each have a still picture for the first mark and second pack and system header associates with the subsequent video packs, 88, also having a still picture for the second mark).

Regarding Claim 12, Maruyama et al. teaches a method of reproducing a data structure for managing reproduction of still images recorded on the computer-readable medium (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU, comprising:

- reproducing at least a first clip stream file and a second clip stream file, the first clip
 stream file including video data for reproducing at least first and second still images, the
 second clip stream file including audio data (see Fig. 3 data area having VOBU
 containing video packs (Fig. 11) first VOBU having video pack which comprises images
 wherein examiner takes first image of first video pack to be image #1 of initial VOBU and
 first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33);
- reproducing at least one playlist file, the playlist including mark information (Fig. 8 having a cell ID number within a program chain) and at least one playitem and a subplayltem (Fig. 27, Col. 35, lines 45-61 user defined program chain), the mark information providing presentation information on first and second still images to provide for at least skipping (Fig. 8 program chains skipping between various cells, having still images) from reproducing the first still image to reproducing the second still image (Fig. 11 C_IDN#1 having a navigation pack containing presentation control information; Col. 12, lines 26-33 each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 each respective video pack having also a recorded presentation time stamp; Fig. 12), the playitem indicating an in-point and an out-point of the first clip stream file for reproducing the first and second still images, the sub-playitem indicating an in-point and an out-point of the second clip stream file for reproducing the audio data (Fig. 27, Col. 35, lines 45-61 user defined program chain); and

· reproducing at least first and second clip information files, the first clip information file

including a mapping information between a presentation time and a unit of the first clip

stream file, and the second clip information file including a mapping information between a presentation time and a unit of the second clip stream file, the first and second clip

. . . .

information files being corresponded to the first and second clip stream files respectively.

• a management area storing at least a first and second clip information file (see Fig. 8,

DA - storage of control information, having VTS's and video and picture objects; Fig. 11

- VTS having VOBS therein VOBUs 1 and 2, 85), the first and the second clip

information files corresponding to the first and second clip stream files (Fig. 11 - first

VOBU having video pack which comprises images wherein examiner takes first image of

first video pack to be image #1 of initial VOBU and first image of first video pack of

secondary VOBU to be image #2; Col. 12, lines 26-33), respectively, the first clip

information file including a mapping information between a presentation time and a unit

of the first clip stream file for the first still image, the second information file including a

mapping information between a presentation time and a unit of the second clip stream

file for the second still image (Col. 12, lines 26-33 - each VOBU having playback time of

group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective

video pack having also a recorded presentation time stamp; Fig. 12).

Regarding Claim 13, Maruyama et al. teaches an apparatus for reproducing a data

structure for managing reproduction of still images recorded on the computer-readable medium,

comprising:

a pick up configured to reproduce data recorded on the computer-readable medium (Fig.

19, 32);

a controller configured to control the pick up to reproduce at least a first clip stream file
and a second clip file, the first clip stream file including video data for reproducing at
least first and second still images, the second clip stream file including audio data (see
Fig. 3 – data area having VOBU containing video packs (Fig. 11) - first VOBU having
video pack which comprises images wherein examiner takes first image of first video
pack to be image #1 of initial VOBU and first image of first video pack of secondary
VOBU to be image #2; Col. 12, lines 26-33); and

. the controller configured to control the pick up (Fig. 19, 36) to reproduce at least one

playlist file (in at least Col. 2, Lines 30-35 - playback of program chains - Fig. 34; see Fig. 8, DA - storage of control information, having VTS's and video and picture objects; Fig. 11 - VTS having VOBS therein VOBUs 1 and 2, 85), the playlist including mark information (Fig. 8 - having a cell ID number within a program chain) and at least one playitem (Fig. 27, Col. 35, lines 45-61 - user defined program chain), the mark information providing presentation information on first and second still images (Fig. 11 -C IDN#1 having a navigation pack containing presentation control information; Col. 12, lines 26-33 - each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective video pack having also a recorded presentation time stamp: Fig. 12) to provide for at least skipping from reproducing the first still image to reproducing the second still image (Fig. 8 - program chains skipping between various cells, having still images), the playitem indicating an in-point and an out-point the first clip stream file for reproducing the first and second still images, the sub-playitem indicating an in-point and an out-point of the second clip stream file for reproducing the audio data. (Fig. 27, Col. 35, lines 45-61 – user defined program chain). the first and the second clip information files corresponding to the first and second clip stream files (Fig. 11 – first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33), the first clip information file including a mapping information between a presentation time and a unit of the first clip stream file, the second information file including a mapping information between a presentation time and a unit of the second clip stream file (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective video pack having also a recorded presentation time stamp; Fig. 12).

Regarding Claim 14, Maruyama et al. teaches a method of recording a data structure for managing reproduction of at least still images recorded on a computer-readable medium, comprising:

- recording at least a first clip stream file and a second clip stream file, the first clip stream file including video data for reproducing at least first and second still images, the second clip stream file including audio data (see Fig. 3 data area having VOBU containing video packs (Fig. 11) first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33);
- recording (Col. 26, lines 21+; Fig. 25 recording of video and audio data in data area) at
 least one playlist file in a playlist area and at least a first and a second clip information
 file from the computer-readable medium (in at least Col. 2, Lines 30-35 playback of
 program chains Fig. 34; see Fig. 8, DA storage of control information, having VTS's
 and video and picture objects; Fig. 11 VTS having VOBS therein VOBUs 1 and 2, 85),

the playlist including mark information (Fig. 8 – having a cell ID number within a program chain) and playitem and a sub-playitem, (Fig. 27, Col. 35, lines 45-61 – user defined program chain), the mark information providing presentation information on first and second still images (Fig. 11 – C_IDN#1 having a navigation pack containing presentation control information; Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective video pack having also a recorded presentation time stamp; Fig. 12) to provide for at least skipping from reproducing the first still image to reproducing the second still image (Fig. 8 – program chains skipping between various cells, having still images), the playitem indicating an in-point and an out-point of the first clip stream file for reproducing the first and second still images, the sub-playitem indicating an in-point and an out-point of the second clip stream file for reproducing the audio data (Fig. 27, Col. 35, lines 45-61 – user defined program chain); and

• recording at least a first and a second information file (Col. 26, lines 21+; Fig. 25 - recording of video and audio data in data area), the first and the second clip information files corresponding to the first and second clip stream files (Fig. 11 – first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33), the first clip information file including a mapping information between a presentation time and a unit of the first clip stream file, the second information file including a mapping information between a presentation time and a unit of the second clip stream file (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 – each respective video pack having also a recorded presentation time stamp; Fig. 12).

Application/Control Number: 10/653,245 Art Unit: 2621

Regarding Claim 15, Maruyama et al. teaches an apparatus for recording a data structure for managing reproduction of at least still images on a computer-readable medium (Col. 12, lines 26-33 – each VOBU having playback time of group of pictures, images respective of VOBU), comprising:

- a pick up configured to record data on the computer-readable medium (Fig. 19, 32);
- a controller configured to control the pick up to record at least a first dip stream file and
 a second clip stream file, the first clip stream file including video data for reproducing at
 least first and second still images, the second clip stream file including audio data (see
 Fig. 3 data area having VOBU containing video packs (Fig. 11) first VOBU having
 video pack which comprises images wherein examiner takes first image of first video
 pack to be image #1 of initial VOBU and first image of first video pack of secondary
 VOBU to be image #2; Col. 12, lines 26-33); and
- the controller configured to control the pick up to record (Col. 26, lines 21+; Fig. 25 recording of video and audio data in data area) at least one playlist file (in at least Col. 2, Lines 30-35 playback of program chains Fig. 34; see Fig. 8, DA storage of control information, having VTS's and video and picture objects; Fig. 11 VTS having VOBS therein VOBUs 1 and 2, 85) and playitem and a sub-playitem (Fig. 27, Col. 35, lines 45-61 user defined program chain), the playlist including mark information (Fig. 8 having a cell ID number within a program chain), the mark information providing presentation information on first and second still images (Fig. 11 C_IDN#1 having a navigation pack containing presentation control information; Col. 12, lines 26-33 each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 each respective video pack having also a recorded presentation time stamp; Fig. 12) to

provide for at least skipping from reproducing the first still image to reproducing the second still image (Fig. 8 - program chains skipping between various cells, having still images), the playitem indicating an in-point and an out-point of the first clip stream file, the sub-playitem indicating an in-point and an out-point of the second clip stream file for reproducing the audio data (Fig. 27, Col. 35, lines 45-61 – user defined program chain). the first clip information file (Fig. 11 - first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33) including a mapping information between a presentation time and a unit of the first clip stream file and the second clip information file including a mapping information between a presentation time and a unit of the second clip stream file (Col. 12. lines 26-33 - each VOBU having playback time of group of pictures, images respective of VOBU; Col. 14, lines 11-15 - each respective video pack having also a recorded presentation time stamp; Fig. 12), the first and the second clip information file corresponding to the first and the second clip stream files (Fig. 11 - first VOBU having video pack which comprises images wherein examiner takes first image of first video pack to be image #1 of initial VOBU and first image of first video pack of secondary VOBU to be image #2; Col. 12, lines 26-33), respectively.

Claims 16, 22, 28 and 34 are rejected under the same grounds as claim 2.

Claims 17, 23, 29 and 35 are rejected under the same grounds as claim 3.

Claims 18, 24, 30 and 36 are rejected under the same grounds as claim 4.

Claims 19, 25, 31 and 37 are rejected under the same grounds as claim 5.

Claims 20, 26, 32 and 38 are rejected under the same grounds as claim 6.

Claims 21, 27, 33 and 39 are rejected under the same grounds as claim 7.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Choi whose telephone number is (571) 272-9594. The examiner can normally be reached on Monday - Friday 9:00AM - 5:30PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/ Supervisory Patent Examiner, Art Unit 2621

/Michael Choi/ Examiner, Art Unit 2621